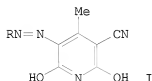```
L22 ANSWER 18 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN
AN   1977:469735 CAPLUS
DN   87:69735
OREF 87:11117a,11120a
TI   2,6-Dihydroxy-3-cyano-4-methylpyridine-containing azo dyes which contain a
      functional amino group
IN   Ramanathan, Visvanathan
PA   Ciba-Geigy A.-G., Switz.
SO   U.S., 16 pp.
      CODEN: USXXAM
DT   Patent
LA   English
FAN.CNT 1
      PATENT NO.   KIND   DATE   APPLICATION NO.   DATE
      ----------------   ----   --------   --------------------   ---------
PI   US 3966706   A   19760629   US 1973-395304   19730907
PRAI US 1969-827960   A1   19690526
      US 1971-110240   A1   19710127
GI
```



```
        Me
RN= N.      .CN
   |        |
   |        |
  HO   N    OH   I
```

```
AB    Title dyes of general structure I, where R is an aromatic or heterocyclic
      residue containing an amino group that may be quaternized, give fast yellow or
      orange dyeings on acrylic fibers.  Typical dyes, all prepare by conventional
      diazo coupling reactions, include I (R = Cl- p-Me3N+CH2COC6H4) [
      25826-12-4], I [R = 6-[(dimethylamino)methyl]-2-benzothiazolyl]
      [25737-76-2], and I [R = 3-[(1-methylpyridinium-3-ylcarbonyl)amino]phenyl]
      [30205-18-6].
IT    25826-12-4
      RL: USES (Uses)
        (dye, for acrylic fibers, preparation of)
```

```
=> dis his

    (FILE 'HOME' ENTERED AT 15:41:08 ON 23 MAY 2008)

    FILE 'REGISTRY' ENTERED AT 15:41:20 ON 23 MAY 2008
L1              STRUCTURE UPLOADED
L2          81 S L1 FUL

    FILE 'CAPLUS' ENTERED AT 15:42:10 ON 23 MAY 2008
L3          22 S L2

    FILE 'REGISTRY' ENTERED AT 15:45:22 ON 23 MAY 2008
L4              STRUCTURE UPLOADED
L5          40 S L4 FUL

    FILE 'CAPLUS' ENTERED AT 15:46:45 ON 23 MAY 2008
L6           7 S L5

    FILE 'REGISTRY' ENTERED AT 15:49:57 ON 23 MAY 2008
L7              STRUCTURE UPLOADED
L8           0 S L7 FUL
L9              STRUCTURE UPLOADED
L10        196 S L9 FUL
L11             STRUCTURE UPLOADED
L12     220874 S L11 FUL

    FILE 'CAPLUS' ENTERED AT 15:58:26 ON 23 MAY 2008
L13       2569 S L10
                S L11

    FILE 'REGISTRY' ENTERED AT 15:58:34 ON 23 MAY 2008
L14         50 S L11

    FILE 'CAPLUS' ENTERED AT 15:58:35 ON 23 MAY 2008
L15         39 S L14
L16     316877 S L12
L17        101 S L13 AND L16
L18          2 S L17 AND PYRIDINOLATE
L19         43 S PYRIDINOLATE
L20          2 S L19 AND AMMONIUM

    FILE 'STNGUIDE' ENTERED AT 16:19:17 ON 23 MAY 2008

    FILE 'REGISTRY' ENTERED AT 18:02:48 ON 23 MAY 2008
L21         47 S MUTILIN

    FILE 'CAPLUS' ENTERED AT 18:04:08 ON 23 MAY 2008
L22         22 S L2

    FILE 'REGISTRY' ENTERED AT 18:15:46 ON 23 MAY 2008
L23             STRUCTURE UPLOADED
L24          0 S L23
L25          0 S L23 FUL
```
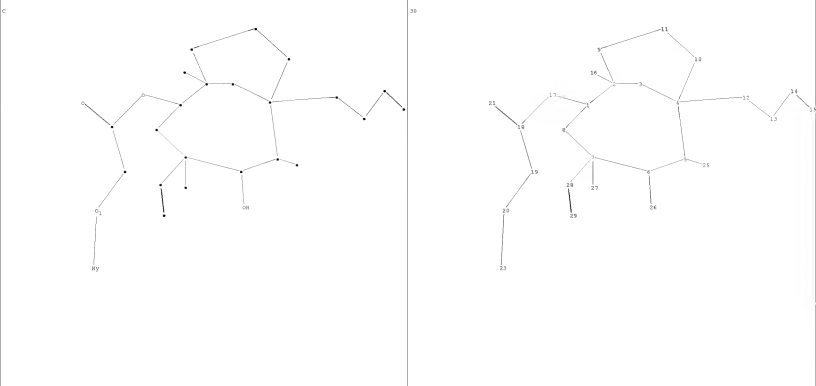
C:\Program Files\Stnexp\Queries\rkk926.str


```
chain nodes :
    12  13  14  15  16  17  18  19  20  21  23  25  26  27  28  29  30
ring nodes :
    1   2   3   4   5   6   7   8   9   10  11
chain bonds :
    1-17  2-16  4-12  5-25  6-26  7-27  7-28  12-13  13-14  14-15  17-18  18-19  18-21  19-20
    20-23  28-29
ring bonds :
    1-2  1-8  2-3  2-9  3-4  4-5  4-10  5-6  6-7  7-8  9-11  10-11
exact/norm bonds :
    1-2  1-8  1-17  2-3  2-9  3-4  4-5  4-10  5-6  6-7  6-26  7-8  9-11  10-11  17-18  18-21  19-20
    20-23
exact bonds :
    2-16  4-12  5-25  7-27  7-28  12-13  13-14  14-15  18-19  28-29


G1:S,N

Match level :
    1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:Atom  8:Atom  9:Atom  10:Atom  11:Atom
    12:CLASS  13:CLASS  14:CLASS  15:CLASS  16:CLASS  17:CLASS  18:CLASS  19:CLASS  20:CLASS
    21:CLASS  23:Atom  25:CLASS  26:CLASS  27:CLASS  28:CLASS  29:CLASS  30:CLASS
Generic attributes :
    23:
        Number of Carbon Atoms : less than 7
        Number of Hetero Atoms : Exactly 1
        Type of Ring System    : Monocyclic

Element Count :
    Node 23: Limited
        N,N1
```